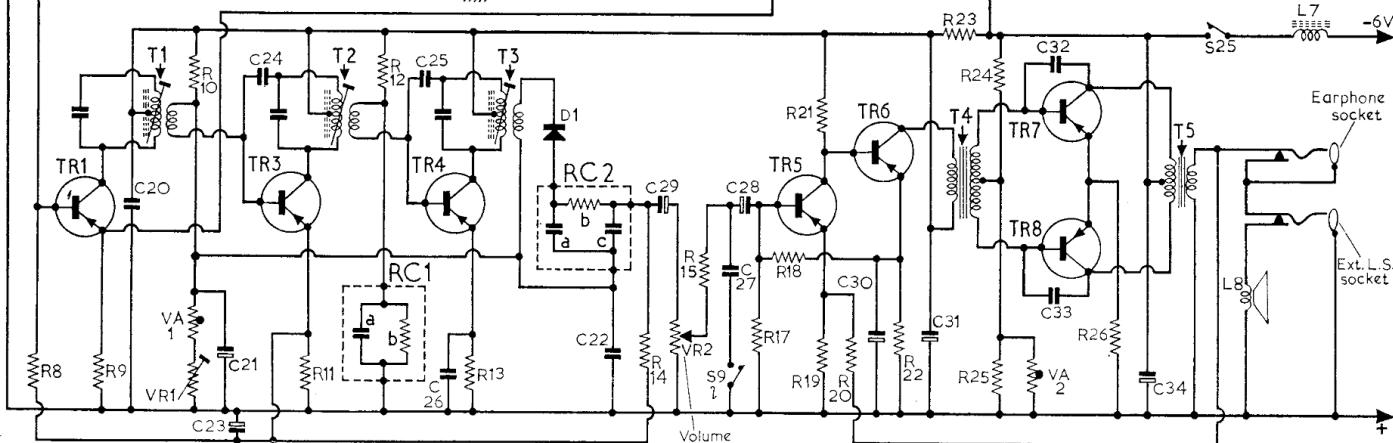


ALBA - 838

Trans-Continental

Transistor Table

Transistor	Emitter (V)	Base (V)	Collector (V)
TR1 2SA222	0.2	0.25	5.6
TR2 2SA222	0.85	0.85	5.0
TR3 2SA322	0.4	0.6	5.6
TR4 2SA203	0.3	0.45	5.6
TR5 2SB185	0.1	0.2	0.5
TR6 2SB186	0.3	0.5	5.3
TR7 2SB22	—	1.5	6.0
TR8 2SB22	—	1.5	6.0



Resistors

R1	68Ω	A1
R2	82Ω	A1
R3	150Ω	A2
R4	1.2kΩ	B2
R5	4.7kΩ	B2
R6	22kΩ	B2
R7	56kΩ	B1
R8	33kΩ	B1
R9	1.5kΩ	B1
R10	82kΩ	B1
R11	1kΩ	C1
R12	47kΩ	B2
R13	390Ω	C2

Coils

L1		C1
L2	—	B1
L3	—	A1
L4	—	A1
L5	—	B2
L6	—	A2
L7	—	B2
L8	7Ω	C2

Transformers

T1	—	B1
T2	—	B1
T3	—	B2
T4	—	D1
T5	—	D2

Miscellaneous

D1	IN60 or IS188	B2
RC1	{ a 0·05μF b 5·6kΩ	C2
RC2	{ a 0·02μF b 200Ω	B2
	{ c 0·02μF	
S1-S24	—	A1
S25	—	D1
VA1	SDT 1,000	C2
VA2	SDT 9	C2

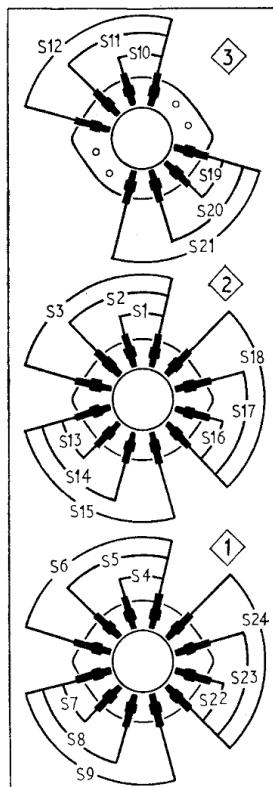
CIRCUIT ALIGNMENT

Equipment Required.—An a.m. signal generator; an audio output meter with an impedance to match 7Ω ; an r.f. coupling loop; a $0.1\mu F$ blocking capacitor and a suitable non-ferrous trimming tool.

During alignment the signal input level should be adjusted to maintain receiver output at 50mW, with the volume control at maximum. 1.—Switch on signal generator and allow to warm up for 15 minutes, then connect the output via a $0.1\mu\text{F}$ isolating capacitor across the aerial section of the tuning gang VCI. Connect the output meter across the loudspeaker terminals.

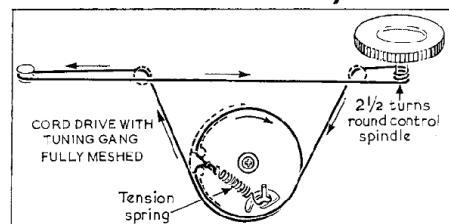
Switch coding on circuit diagram:

m = closed on medium wave.
s = closed on short wave.
l = closed on long wave.



- 2.—Switch receiver to m.w. and feed in a 470kc/s signal. Adjust the cores of T3, T2 and T1 for maximum output. Repeat as necessary, until, with an input level of 1μV, an output of 50mW is obtained.
 - 3.—With receiver still switched to m.w. and the tuning gang at maximum, loosely couple the output of the signal generator to the receiver via the r.f. coupling loop.
 - 4.—Feed in a 520kc/s signal and adjust L4 for maximum output. Turn tuning gang to minimum and feed in a 1,650kc/s signal, adjust CT4 for maximum output.
 - 5.—Tune receiver to 500m and feed in a 600kc/s signal, adjust L1 for maximum output. Tune receiver to 214m and feed in a 1,400kc/s signal, adjust CT1 for maximum output.
 - 6.—Switch receiver to l.w., turn tuning gang to maximum and feed in a 145kc/s signal. Adjust L6 for maximum output. Turn gang to minimum, feed in a 355kc/s signal and adjust CT6 for maximum output.
 - 7.—Tune receiver to 1,875m, feed in a 160kc/s signal and adjust L3 for maximum output. Tune receiver to 880m, feed in a 340kc/s signal and adjust CT3 for maximum output.
 - 8.—Switch receiver to s.w. and turn tuning gang to maximum. Feed in a 5·8Mc/s signal and adjust L5 for maximum output. Turn gang to minimum and feed in an 18·5Mc/s signal. Adjust CT5 for maximum output.]

Drive Cord Assembly



- 9.—Tune receiver to 46m and feed in a 6.5Mc/s signal, adjust L2 for maximum output. Tune receiver to 17.65m, feed in a 17Mc/s signal and adjust CT2 for maximum output.
 - 10.—Repeat all adjustments until no further improvement can be obtained.